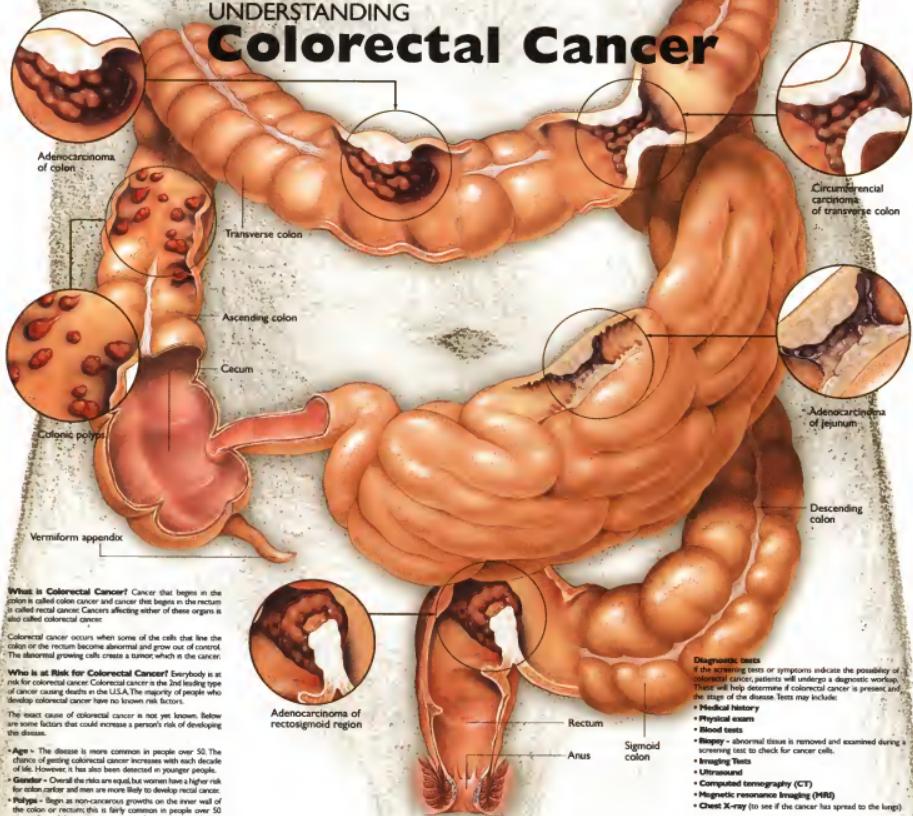


UNDERSTANDING Colorectal Cancer



What is Colorectal Cancer? Cancer that begins in the colon or the rectum becomes abnormal and grows out of control. The abnormal growing cells cause a growth in the cancer.

Colorectal cancer occurs when some of the cells that line the colon or the rectum become abnormal and grow out of control. The abnormal growing cells cause a growth in the cancer.

Who is at Risk for Colorectal Cancer? Everybody is at risk for colorectal cancer. In the USA, it is the 2nd leading cause of cancer causing deaths in the USA. The majority of people develop colorectal cancer have no known risk factors.

The exact cause of colorectal cancer is not yet known. Below are some factors that could increase a person's risk of developing the disease.

Age: The disease is more common in people over 50. The chance of getting colorectal cancer increases with each decade of life. However, it has been seen in younger people.

Gender: Men and women are equally likely to develop cancer for colon cancer and men are more likely to develop rectal cancer.

Polyps: Begin as non-cancerous growths on the inner wall of the colon or rectum. They are very common in the early 40s and 50s. Adolescents are the type of non-cancerous polyps that can mutate and are the potential precursors of colon and rectal cancer.

Personal History: Research shows that women who have a history of ovarian or uterine cancer have a slight increased risk of developing colorectal cancer. Women who have had uterine, cervical or ovarian cancer are also at higher risk.

Family History: Parents, siblings, and children of a person who has had colorectal cancer are more likely to develop colorectal cancer. This is because of a genetic link. Some families have adenomatous polyposis, or hereditary polyposis syndrome also known as FAP.

Diet: A diet high in fat and calories and low in fiber may be linked to a greater risk.

Lifestyle factors: Alcohol, smoking, lack of exercise, and obesity are all associated with an increased risk of colorectal cancer.

Diseases: Diseases have a 30-40% increased risk.

Signs & Symptoms

Colorectal cancer may not cause any symptoms in early stages.

- The following signs should raise suspicion:
- Change in bowel habits: Diarrhea or constipation or a change in the consistency of stool.
- Nausea, vomiting, and/or stool.
- Recal bleed or blood in stool.
- Persistent abdominal discomfort such as gas, pain or cramps.
- Feeling full or bloated without eating completely.
- Unexplained weight loss.
- Constant fatigue.

Screening Tests

Fecal Occult Blood Test (FOBT) - Checks for hidden blood in the stool.

Sigmoidoscopy - Sigmoidoscopy is a long, flexible tube with a small camera at the end. The tube is inserted into the rectum, the descending colon, and the sigmoid colon.

Colonoscopy - Colonoscopy is a long, flexible tube with a small camera at the tip that allows the doctor to look inside the rectum to see the inside of the entire colon. The doctor may also take a tissue sample to remove polyps during a colonoscopy.

Barium enema: Colon is filled with liquid barium that is released into the colon (through the rectum) and then an X-ray is performed.

Digital Rectal Exam

If the screening tests or symptoms indicate the possibility of colorectal cancer, patients will undergo a diagnostic workup. This will help determine if colorectal cancer is present and the stage of the disease. Tests may include:

- Medical history
- Physical exam
- Blood tests
- Biopsies: if abnormal tissue is removed and examined during a screening test to check for cancer cells.
- Imaging Tests
- Ultrasound
- Computed Tomography (CT)
- Magnetic resonance imaging (MRI)
- Chest X-ray (to see if the cancer has spread to the lungs)

Treatments

Choice of treatment(s) depends on the location of the tumor (colon or rectum) and the stage of the disease. Common types of treatment include:

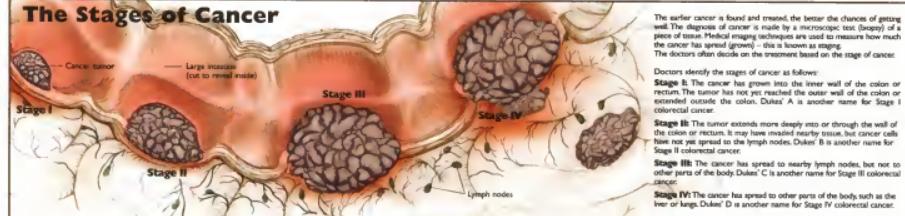
Surgery: This is the most common treatment. It is used for removal of polyps and tumors and to check for the spread of the disease. Common types include laparoscopy and open surgery. After surgery, the rest of the colon or rectum and healthy parts are usually reconstructed. When reconstruction is not possible, a colostomy may be performed.

Chemotherapy: Drug therapy that prevents the spread of cancer cells.

Radiation Therapy: Also known as Radiotherapy, uses high energy rays to kill cancer cells.

Biological Therapy: Patients receive a monoclonal antibody through a vein which binds to colorectal cancer cells, interfering with their growth and spread in the body.

The Stages of Cancer



The earlier a cancer is found and treated, the better the chances of getting a cure. A diagnosis of cancer is made by a diagnostic test (biopsy) of a piece of tissue. However, a biopsy only shows if the cancer is there, but not how much the cancer has spread (grown) - this is known as staging. The doctors often discuss the treatment based on the stage of cancer.

Doctors identify the stages of cancer as follows:

Stage I: The cancer has grown into the inner wall of the colon or rectum. The cancer has not spread to the lymph nodes or extended outside the colon. Duke's C is another name for Stage I colorectal cancer.

Stage II: The tumor extends more deeply into or through the wall of the colon or rectum. It may have moved nearby tissue, but cancer cells have not yet spread to the lymph nodes. Duke's D is another name for Stage II colorectal cancer.

Stage III: The cancer has spread to nearby lymph nodes, but not to other parts of the body. Duke's C is another name for Stage III colorectal cancer.

Stage IV: The cancer has spread to other parts of the body such as the liver or lungs. Duke's D is another name for Stage IV colorectal cancer.

